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RAW SEQUENCE LISTING   DATE: 10/13/2004
PATENT APPLICATION: **US/10/758,155**   TIME: 10:37:08

Input Set : **D:\02-742-N 400.141 Sequence Listing.txt**
Output Set: **N:\CRF4\10132004\J758155.raw**

3 <110> APPLICANT: Sirna Therapeutics, Inc.
4   McSwiggen, James
5   Beigelman, Leonid
6   Pavco, Pamela
8 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Vascular Endothelial
9   Growth Factor and Vascular Endothelial Growth Factor Receptor
10   Gene Expression Using Short Interfering Nucleic Acid (siNA)
12 <130> FILE REFERENCE: 400/141 (MBHB02742-N)
14 <140> CURRENT APPLICATION NUMBER: 10/758,155
15 <141> CURRENT FILING DATE: 2004-01-12
17 <150> PRIOR APPLICATION NUMBER: US 10/665,951
18 <151> PRIOR FILING DATE: 2003-09-18
20 <150> PRIOR APPLICATION NUMBER: US 10/664,668
21 <151> PRIOR FILING DATE: 2003-09-18
23 <150> PRIOR APPLICATION NUMBER: PCT/US 03/05022
24 <151> PRIOR FILING DATE: 2003-02-20
26 <150> PRIOR APPLICATION NUMBER: US 60/399,348
27 <151> PRIOR FILING DATE: 2002-07-29
29 <150> PRIOR APPLICATION NUMBER: US 60/393,796
30 <151> PRIOR FILING DATE: 2002-07-03
32 <150> PRIOR APPLICATION NUMBER: US 10/287,949
33 <151> PRIOR FILING DATE: 2002-11-04
35 <150> PRIOR APPLICATION NUMBER: US 10/306,747
36 <151> PRIOR FILING DATE: 2002-11-27
38 <150> PRIOR APPLICATION NUMBER: PCT/US 02/17674
39 <151> PRIOR FILING DATE: 2002-05-29
41 <150> PRIOR APPLICATION NUMBER: US 60/358,580
42 <151> PRIOR FILING DATE: 2002-02-20
44 <150> PRIOR APPLICATION NUMBER: US 60/363,124
45 <151> PRIOR FILING DATE: 2002-03-11
47 <150> PRIOR APPLICATION NUMBER: US 60/386,782
48 <151> PRIOR FILING DATE: 2002-06-06
50 <150> PRIOR APPLICATION NUMBER: US 60/406,784
51 <151> PRIOR FILING DATE: 2002-08-29
53 <150> PRIOR APPLICATION NUMBER: US 60/408,378
54 <151> PRIOR FILING DATE: 2002-09-05
56 <150> PRIOR APPLICATION NUMBER: US 60/409,293
57 <151> PRIOR FILING DATE: 2002-09-09
59 <150> PRIOR APPLICATION NUMBER: US 60/440,129
60 <151> PRIOR FILING DATE: 2003-01-15
62 <150> PRIOR APPLICATION NUMBER: US 60/334,461
63 <151> PRIOR FILING DATE: 2001-01-30
65 <160> NUMBER OF SEQ ID NOS: 2751

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Input Set : D:\02-742-N 400.141 Sequence Listing.txt
Output Set: N:\CRF4\10132004\J758155.raw

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 69 <210> SEQ ID NO: 1
 70 <211> LENGTH: 19
 71 <212> TYPE: RNA
 72 <213> ORGANISM: Artificial Sequence
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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 78 gcggacacuc cucucggcu                                          19
 81 <210> SEQ ID NO: 2
 82 <211> LENGTH: 19
 83 <212> TYPE: RNA
 84 <213> ORGANISM: Artificial Sequence
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
ense region
 89 <400> SEQUENCE: 2
 90 uccucccۀcgg cagcggcgg                                         19
 93 <210> SEQ ID NO: 3
 94 <211> LENGTH: 19
 95 <212> TYPE: RNA
 96 <213> ORGANISM: Artificial Sequence
 98 <220> FEATURE:
 99 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
ense region
101 <400> SEQUENCE: 3
102 gcggcucgga gcgggcucc                                          19
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 19
107 <212> TYPE: RNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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113 <400> SEQUENCE: 4
114 cggggcucgg gugcagcgg                                          19
117 <210> SEQ ID NO: 5
118 <211> LENGTH: 19
119 <212> TYPE: RNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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125 <400> SEQUENCE: 5
126 gccagcgggc cuggcggcg                                          19
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 19
131 <212> TYPE: RNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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137 <400> SEQUENCE: 6
138 gaggauuacc cggggaagu   19

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Input Set : D:\02-742-N 400.141 Sequence Listing.txt
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143 <212> TYPE: RNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
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150 ugguugucuc cuggcugga                                            19
153 <210> SEQ ID NO: 8
154 <211> LENGTH: 19
155 <212> TYPE: RNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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161 <400> SEQUENCE: 8
162 agccgcgaga cgggcgcuc                                            19
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167 <212> TYPE: RNA
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170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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174 cagggcgcgg ggccggcgg                                            19
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 19
179 <212> TYPE: RNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
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sense region
185 <400> SEQUENCE: 10
186 gcggcgaacg agaggacgg                                            19
189 <210> SEQ ID NO: 11
190 <211> LENGTH: 19
191 <212> TYPE: RNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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197 <400> SEQUENCE: 11
198 gacucuggcg gccgggucg                                            19
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 19
203 <212> TYPE: RNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
209 <400> SEQUENCE: 12
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210 guuggccggg ggagcgcgg   19
213 <210> SEQ ID NO: 13

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    215 <212> TYPE: RNA
    216 <213> ORGANISM: Artificial Sequence
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    221 <400> SEQUENCE: 13
    222 ggcaccgggc gagcaggcc                                          19
    225 <210> SEQ ID NO: 14
    226 <211> LENGTH: 19
    227 <212> TYPE: RNA
    228 <213> ORGANISM: Artificial Sequence
    230 <220> FEATURE:
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sense region
    233 <400> SEQUENCE: 14
    234 cgcgucgcgc ucaccaugg                                          19
    237 <210> SEQ ID NO: 15
    238 <211> LENGTH: 19
    239 <212> TYPE: RNA
    240 <213> ORGANISM: Artificial Sequence
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    243 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    245 <400> SEQUENCE: 15
    246 gucagcuacu gggacaccg                                          19
    249 <210> SEQ ID NO: 16
    250 <211> LENGTH: 19
    251 <212> TYPE: RNA
    252 <213> ORGANISM: Artificial Sequence
    254 <220> FEATURE:
    255 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    257 <400> SEQUENCE: 16
    258 gggguccugc ugugcgcgc                                          19
    261 <210> SEQ ID NO: 17
    262 <211> LENGTH: 19
    263 <212> TYPE: RNA
    264 <213> ORGANISM: Artificial Sequence
    266 <220> FEATURE:
    267 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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    269 <400> SEQUENCE: 17
    270 cugcucagcu gucugcuuc                                          19
    273 <210> SEQ ID NO: 18
    274 <211> LENGTH: 19
    275 <212> TYPE: RNA
    276 <213> ORGANISM: Artificial Sequence
    278 <220> FEATURE:
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    281 <400> SEQUENCE: 18
    282 cucacaggau cuaguucag                                          19
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285 <210> SEQ ID NO: 19
286 <211> LENGTH: 19

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Input Set : D:\02-742-N 400.141 Sequence Listing.txt
Output Set: N:\CRF4\10132004\J758155.raw

287 <212> TYPE: RNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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294 gguucaaaau uaaaagauc   19
297 <210> SEQ ID NO: 20
298 <211> LENGTH: 19
299 <212> TYPE: RNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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305 <400> SEQUENCE: 20
306 ccugaacuga guuuaaaag   19
309 <210> SEQ ID NO: 21
310 <211> LENGTH: 19
311 <212> TYPE: RNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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321 <210> SEQ ID NO: 22
322 <211> LENGTH: 19
323 <212> TYPE: RNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
329 <400> SEQUENCE: 22
330 caagcaggcc agacacugc   19
333 <210> SEQ ID NO: 23
334 <211> LENGTH: 19
335 <212> TYPE: RNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
341 <400> SEQUENCE: 23
342 caucuccaau gcagggggg   19
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346 <211> LENGTH: 19
347 <212> TYPE: RNA
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
353 <400> SEQUENCE: 24
354 gaagcagccc auaaauggu   19
357 <210> SEQ ID NO: 25

358 <211> LENGTH: 19
359 <212> TYPE: RNA

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/13/2004
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Input Set : **D:\02-742-N 400.141 Sequence Listing.txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:2020; N Pos. 20,21
Seq#:2021; N Pos. 20,21
Seq#:2022; N Pos. 20,21
Seq#:2023; N Pos. 20,21
Seq#:2024; N Pos. 20,21
Seq#:2025; N Pos. 20,21
Seq#:2026; N Pos. 20,21
Seq#:2027; N Pos. 20,21
Seq#:2028; N Pos. 20,21
Seq#:2029; N Pos. 20,21
Seq#:2030; N Pos. 20,21
Seq#:2031; N Pos. 20,21
Seq#:2032; N Pos. 20,21
Seq#:2033; N Pos. 20,21
Seq#:2034; N Pos. 20,21
Seq#:2035; N Pos. 20,21
Seq#:2036; N Pos. 20,21
Seq#:2037; N Pos. 20,21
Seq#:2038; N Pos. 20,21
Seq#:2039; N Pos. 20,21
Seq#:2040; N Pos. 20,21
Seq#:2041; N Pos. 20,21
Seq#:2042; N Pos. 20,21
Seq#:2043; N Pos. 20,21
Seq#:2044; N Pos. 20,21
Seq#:2045; N Pos. 20,21
Seq#:2046; N Pos. 20,21
Seq#:2047; N Pos. 20,21
Seq#:2048; N Pos. 20,21
Seq#:2049; N Pos. 20,21
Seq#:2050; N Pos. 20,21
Seq#:2051; N Pos. 20,21
Seq#:2052; N Pos. 20,21
Seq#:2053; N Pos. 20,21
Seq#:2054; N Pos. 20,21
Seq#:2055; N Pos. 20,21
Seq#:2056; N Pos. 20,21
Seq#:2057; N Pos. 20,21
Seq#:2058; N Pos. 20,21
Seq#:2059; N Pos. 20,21
Seq#:2060; N Pos. 20,21
Seq#:2061; N Pos. 20,21
Seq#:2062; N Pos. 20,21
Seq#:2063; N Pos. 20,21
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        Input Set : D:\02-742-N 400.141 Sequence Listing.txt
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Seq#:2064; N Pos. 20,21
Seq#:2065; N Pos. 20,21
Seq#:2066; N Pos. 20,21
Seq#:2067; N Pos. 20,21
Seq#:2068; N Pos. 20,21
Seq#:2069; N Pos. 20,21
Seq#:2070; N Pos. 20,21

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2556; Line(s) 43198
Seq#:2557; Line(s) 43226
Seq#:2558; Line(s) 43259
Seq#:2559; Line(s) 43291
Seq#:2560; Line(s) 43323
Seq#:2561; Line(s) 43356
Seq#:2562; Line(s) 43390

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L:24312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2020 after pos.:0
L:24330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2021 after pos.:0
L:24348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2022 after pos.:0
L:24366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2023 after pos.:0
L:24384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2024 after pos.:0
L:24402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2025 after pos.:0
L:24420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2026 after pos.:0
L:24438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2027 after pos.:0
L:24491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2028 after pos.:0
L:24529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2029 after pos.:0
L:24572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2030 after pos.:0
L:24620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2031 after pos.:0
L:24663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2032 after pos.:0
L:24701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2033 after pos.:0
L:24739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2034 after pos.:0
L:24787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2035 after pos.:0
L:24860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2036 after pos.:0
L:24913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2037 after pos.:0
L:24971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2038 after pos.:0
L:25044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2039 after pos.:0
L:25112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2040 after pos.:0
L:25160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2041 after pos.:0
L:25213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2042 after pos.:0
L:25281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2043 after pos.:0
L:25299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2044 after pos.:0
L:25317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2045 after pos.:0
L:25335 M:341 W:, (46) "n" or "Xaa" used, for SEQ ID#:2046 after pos.:0
L:25353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2047 after pos.:0
L:25371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2048 after pos.:0
L:25389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2049 after pos.:0
L:25407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2050 after pos.:0
L:25425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2051 after pos.:0
L:25473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2052 after pos.:0
L:25521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2053 after pos.:0
L:25569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2054 after pos.:0
L:25627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2055 after pos.:0
L:25670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2056 after pos.:0
L:25708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2057 after pos.:0
L:25756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2058 after pos.:0
L:25804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2059 after pos.:0
L:25872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2060 after pos.:0
L:25935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2061 after pos.:0
L:26008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2062 after pos.:0
L:26091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2063 after pos.:0
L:26154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2064 after pos.:0
L:26212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2065 after pos.:0
L:26280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2066 after pos.:0
L:26358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2067 after pos.:0
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L:26376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2068 after pos.:0
L:26394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2069 after pos.:0